

Title (en)
INTERNAL COMBUSTION ENGINE

Title (de)
VERBRENNUNGSMOTOR

Title (fr)
MOTEUR À COMBUSTION INTERNE

Publication
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Application
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Abstract (en)
The present invention provides an internal combustion engine includes: a turbocharger arranged in exhaust passage; EGR passage branching off from the exhaust passage downstream of a turbine of the turbocharger and connected to intake passage; a burner device arranged in the exhaust passage between the turbine and the portion where the EGR passage branches off to increase exhaust temperature; a bypass passage branching off from the exhaust passage between the turbine and the burner device and connected to the EGR passage; and a bypass valve to adjust flow rate of exhaust gas passing through bypass passage. When flow rate of the exhaust gas is increased, the bypass valve is open, and part of the exhaust gas is guided to the bypass passage. The flow rate of the exhaust gas to be supplied to the burner device is reduced, and the ignition performance of the burner device is ensured.

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Citation (search report)
See references of WO 2012004831A1

Cited by
US10480460B2; US10458368B2; WO2016097197A1

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